

JOURNALCTL CHEAT SHEET

(DFIR EDITION)

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BEFORE YOU START

export SYSTEMD_PAGER=

Set SYSTEMD_PAGER to null so that output lines wrap instead of scrolling.

journalctl -D /path/to/directory **journalctl --file=somefile**

Journal logs are normally found under /var/log/journal/MACHINE_ID
Use the -D switch to specify an alternate directory, or --file to select individual files

journalctl --header

Summarizes information from each journal file. Includes first/last dates, boot number, number of objects, etc.

OUTPUT MODES

-q -o short

Syslog-style output w/o extra header

-q -o short-iso --utc

Better timestamp, force UTC output

-o json

Single line JSON, for script processing

-o json-pretty

Multi-line JSON for readability

SIMPLE SEARCH CRITERIA

--facility=name

Search by Syslog facility name

-u name.service

Search by Systemd unit name

-t identifier

Match SYSLOG_IDENTIFIER field

-g regex

PCRE match against log message text

SPECIFY TIME RANGES

-S, --since

-U, --until

Search after/before specified time

Sample time specifiers:

-S 2024-08-07 09:30:00

-S 2024-07-24

-U yesterday

-U "15 minutes ago"

-S -1hr

-S 2024-07-24 -U yesterday

OTHER FIELDS

journalctl -N

List all field names found in journal

journalctl -F field

List all values found for given field

journalctl FIELD=value

Match entries where named *FIELD* equals chosen *value*

EXAMPLE COMMANDS

journalctl -q -o short --facility=authpriv

Recreate /var/log/auth.log

journalctl -q -o short-iso -u ssh -g Accepted

Who is logging in with SSH and from where?

journalctl -q -o short-iso _UID=1000

Find messages related to a given user ID

journalctl -q -o short-monotonic --dmesg

Recreates traditional dmesg output

journalctl -q -o short-iso -t sudo -g COMMAND= -r

Pull interesting Sudo-related messages, most recent first (-r)

journalctl -q -o short-iso -f

On live system, show continuous logs (like tail -f), Ctrl-C aborts